

## **Consolidated Listing of Climate Science Center Proposal Solicitations Fiscal Year 2012**

In Fiscal Year 2012, DOI Climate Science Centers<sup>1</sup> (CSCs) will provide funding opportunities for research and other activities. The table below identifies these funding opportunities and describes topics, eligibility, schedules, funding levels, anticipated awards, and funding duration. Additional details are available from CSC Directors (contact information below).

In FY2012, funds from Climate Science Centers will be distributed primarily to CSC-affiliated universities, and USGS centers and programs. The listing of solicitations below is divided between those open only to CSC-affiliated university and consortium members, and those for which proposals will be accepted also from USGS Centers, field, stations, labs, and programs. Each proposal must have a Principal Investigator (PI) from an eligible entity. However, individuals from other organizations<sup>2</sup> may be involved as investigators as part of a project headed by a CSC/university or USGS PI, and as noted below, NCCWSC and CSCs encourage multi-institution proposals. NCCWSC will review this constraint in future years.

This document does not address NCCWSC, national-level scientific activities. A small, directed call will likely be made by NCCWSC in FY12 but details are not available at this time. Future consolidated schedules will include national activities.

Also, this document only addresses new funding for FY12. That is, some CSCs began multi-year projects in FY10. These projects are not listed here as they do not entail new solicitations and funding opportunities.

Key factors that will be considered in selection of proposals include the following:

- Projects must respond directly to the topics identified by the relevant Climate Science Center strategic plan or other solicitation documents.
- NCCWSC encourages projects that pursue reliable climate science in an open and objective manner that is policy relevant, but not policy prescriptive. Submittals should clearly identify relevant management concerns that the project is intended to address.
- NCCWSC encourages projects that include strong interaction between investigators and the intended users of the scientific output of the project. Engagement of managers on the study team, creation of practitioner advisory teams, periodic "check in" meetings with the targeted users, and similar strategies are strongly encouraged.
- NCCWSC encourages projects that implement the vision of the CSCs as a joint partnership between the academic, USGS, and Federal research communities in bringing scientific expertise to problems.

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<sup>1</sup> The USGS National Climate Change and Wildlife Science Center (NCCWSC) is establishing and managing the network of eight Department of the Interior (DOI) Climate Science Centers. NCCWSC will provide national coordination for the CSCs and develop a scientific program that complements the regional-to-local work of individual CSCs, fosters cross-CSC linkages, and ensures high quality data management across the network.

<sup>2</sup> These may include investigators from other CSC-consortium members as well as other universities, Federal, state, tribal, or other institutions.

- NCCWSC encourages projects with involvement of Landscape Conservation Cooperatives (LCC), and which contribute to meeting identified LCC needs.
- NCCWSC encourages projects that integrate the human dimension (i.e., safety, health, social, economic, etc.) in the context of research projects focused on the physical and biological responses to climate change.
- NCCWSC encourages projects that provide results with a broad geographic application throughout the relevant CSC region(s).
- NCCWSC strongly encourages projects that coordinate funding with other sources of funds and leverage additional resources to carry out the proposed project. While a match is not required, cost-leveraging helps extend the overall funding capabilities of this program and may bolster partnerships as well.
- NCCWSC seeks to expand CSC contributions to their regional communities by promoting broad participation and supporting the education of young scientists and post-docs. NCCWSC encourages projects that provide opportunities for young researchers.

All CSC-funded projects will require:

- Data management plans at the proposal stage and a more detailed research data management plan that will be maintained as the project progresses. Additional details will be made available as solicitations are finalized.
- Periodic progress reporting during the project, a final project closeout report, and clearly identified final product(s) for publication or other dissemination.
- All proposals will be subject to independent peer review prior to funding.
- Use of a standard pre-proposal format (to be distributed) and consistent proposal outlines (to be distributed).

FY2012 project selection decisions will proceed while key elements of the Climate Science Centers are still in development. In some cases, Strategic Science Plans are still in draft form, Stakeholder Advisory Committees are in formative stages, and links with partners – particularly LCCs – are still developing. As a result, project selection this year will necessarily be different from future years. As the CSCs evolve, broad priorities will be more clearly identified in Strategic Science Plans for each CSC. These Plans and priorities will have been well vetted by the respective Stakeholder Advisory Committees, and reviewed with other scientific partners, including LCCs, to ensure efficient and non-redundant use of available science capacity. In 2012, many of these actions will be taken for the first time, in anticipation of the more-formal and enduring processes envisioned for future years. In addition, notification of solicitations will occur earlier in the fiscal year.

Final discretion on funding decisions for specific projects remains with the respective CSC Director.

## Proposals for Which the Principal Investigator Must Be Affiliated With a Climate Science Center Institution / Consortia

(Proposals may include non-CSC institution investigators)

(Eligibility generally limited to within-region CSCs; CSCs may request proposals from across CSC network)

**North Central Climate Science Center**, Jeff Morisette, Director, 970-226-9144, [Morisettej@usgs.gov](mailto:Morisettej@usgs.gov)

**Proposal Topic(s):** Research to complement the 1st year implementation plan

**Type of Solicitation / Eligibility** Open to Universities in the NC CSC Consortium only

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages, due May 8	May 11	Up to 10 pages, due May 25	June 8	Up to \$1 M	4-10	1 year with possible extension

**Proposal Topic(s):** Post doctoral position

**Type of Solicitation / Eligibility** Open to any Ph.D student at a NC CSC consortium university other than Colorado State University with appropriate degree and background relate to topics derived from the strategic plan (draft anticipated in May 2012).

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
Advertising and selection of these positions will be led by the University Consortium in consultation with NC CSC, consortium members and stakeholder advisory committee.		June	July	Salary and travel allowance	4	3 years

**Alaska Climate Science Center**, Stephen Gray, Director, 907-786-6780, [sgray@usgs.gov](mailto:sgray@usgs.gov)

(see End Note regarding AK Science Priorities)

**Proposal Topic(s):** Post-doctoral research to address how changes in coastal storms and related coastal processes might impact coastal habitats /ecosystems. Will be housed at the AK-CSC or affiliated University of Alaska campuses.

**Type of Solicitation / Eligibility** Open to recent Ph.D.'s with expertise in a related field and demonstrable experience in outreach and/or coordination involving state and federal partners.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages, due March 30;	April 13	Up to 10 pages, due May 4	June 1	Salary and travel allowance (varies)	1	1 year with possible extension

## Proposals for Which the Principal Investigator Must be Affiliated with a Climate Science Center Institution / Consortia or a USGS Center / Field Station / Laboratory / Program

(Proposals may include non-USGS / non-CSC investigators)

(Note that some solicitations will be directed to specific entities; see individual descriptions)

(Eligibility generally limited to within-region CSCs; CSCs may request proposals from across CSC network)

**North Central Climate Science Center** – Jeff Morisette, Director, 970-226-9144, [Morisettej@usgs.gov](mailto:Morisettej@usgs.gov)

**Proposal Topic(s):** One year studies within the NOAA-NCPP/NC CSC pilot project.

**Type of Solicitation / Eligibility:** This solicitation specifically requests proposals led by USGS centers within the NC Climate Science Center domain that have ongoing and active research and expertise in Ecological Response models where translational climate analysis from the NCPP program can advance that research.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages, due March 1	by March 9th	Up to 10 pages, due April 1	by May 1	up to \$500K	2 to 4	1 year

**Northwest Climate Science Center** – Gustavo Bisbal, 541-737-2525, [gbisbal@usgs.gov](mailto:gbisbal@usgs.gov)

**Proposal Topic(s):** Topics derived from 2012-2015 NW CSC Strategic Plan and FY12 Annual Science Work Plan: (1) Response of hydrologic systems to future climate; (2) Vulnerability of species, populations and ecosystems to climate change; (3) Aquatic integrity related to climate change; (4) Disturbance occurrence due to climate change; and (5) Climate change monitoring and observation systems.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages, due March 12	by Week of March 26	Up to 10 pages, Due week of April 23	By week of May 14	Up to \$1.0 million	9 to 12	2 years

**Southeast Climate Science Center** – Gerard McMahon, Director, 919-515-2229, [gcmcmahon@usgs.gov](mailto:gcmcmahon@usgs.gov)

**Proposal Topic(s):** Topics will fall in 6 SECSC science plan thematic areas: (1) Develop Climate Projections and Determine Appropriate Projections to Use for Resource Management; (2) Land Use and Land Cover Change Projections; (3) Impacts of Climate Change on Water Resources; (4) Ecological Research and Modeling; (5) Coastal and Nearshore Marine Environments; (6) Impacts of Climate Change on Cultural Heritage Resources

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages due by early-mid-April	2 weeks after statements of interest are due	Up to 10 pages due 3 weeks after selection of pre-proposals	June	Up to \$400K	2 to 4	2 years

**Proposal Topic(s):**

Research to help address Stakeholder Advisory Committee / SWCSC / USGS scientific priorities; SWCSC plans to use the NCCWSC planning goals during the FY12 funding cycle. Responses will be expected help address the following:

- Forecast fish and wildlife population and habitat changes in response to climate and other global changes
- Assess the vulnerability and risk of species and habitats to climate and other global changes
- Link models of physical climate change (such as temperature and precipitation) with models that predict ecological habitat, and population responses
- Develop standardized approaches to monitoring and help link existing monitoring efforts to climate, other global change, and ecological or biological response models
- Develop data management policies and practices to ensure that data generated at NCCWSC and the DOI CSCs are shared and interoperable with other datasets

These goals should be interpreted broadly to include human biology and populations as part of the management information needs determination relating to climate-ecosystem interaction research. A February Stakeholder Advisory Committee (SAC) meeting and early-March CSC/USGS workshop are planned to develop a set of research themes from SAC input on information needs. Preproposals will be expected to address and further articulate those themes.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages, due April 13	April 27	Up to 10 pages, due May 11	May 30	Up to \$1.2 M	5 to 7	1 to 2 years

**Alaska Climate Science Center**, Stephen Gray, Director, 907-786-6780, [sgray@usgs.gov](mailto:sgray@usgs.gov)

(see End Note regarding AK Science Priorities)

**Proposal Topic:**

Development of standard methodologies for the rapid and cost-effective model-based estimation and/or collection of distributed snow measurements.  
Funds will be used to enhance related proposals submitted to Alaska Region LCCs.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
1 page, with timing based on LCC proposal schedule	Varies	Up to 10 pages, dates vary	Varies	Up to \$100,000	1-2	1 year

**Proposal Topic:** Development of a strategic and/or conceptual framework to address how coastal storm/erosion models might address key management, conservation, and sustainability issues.

**Type of Solicitation/Eligibility** Targeted RFP. Potential PI teams will be identified through consultations with Alaska Region LCC coastal working groups, NOAA, and Alaska Ocean Observing System staff.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages, due March 2	March 9	Up to 10 pages, due March 30	April 13	Up to \$60,000	1	1 year

**Proposal Topic:** Informational workshop that describes progress in understanding a) the impact of Alaska's glaciers on fish, wildlife and water resources; b) an overview of recent (last 10-20 years) changes in Alaska's glaciers, and; c) a prospectus for predicting future glacier change. This workshop will feature events for both technical audiences and the general public.

**Type of Solicitation/Eligibility** Limited to multi-institutional and/or multi-agency teams of AK-CSC PIs with previous Center funding to perform glacier-related work.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages, due March 2	March 9	Up to 10 pages, due March 30	April 13	Up to \$50,000	One	1

**Pacific Islands Climate Science Center** – Loyal Mehrhoff, Interim Director, 808-792-9430, loyal\_mehrhoff@fws.gov

**Proposal Topic(s):** Research to help address Stakeholder Advisory Committee / PICSC / USGS scientific priorities; PICSC plans to use the Pacific Islands Climate Change Cooperative (PICCC) planning goals during the FY12 funding cycle. A February Stakeholder Advisory Committee (SAC) meeting and PICCC-PICSC workshop are planned to develop a set of specific research themes and information needs. A Request for Proposals will be published on March 1

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
N/A	N/A	March 30	June 15	Up to \$1.2 M	5 to 7	1 to 3 years

**South Central Climate Science Center** – Allison Shipp, Interim Director, 573-777-1665, aashipp@usgs.gov

**Proposal Topic(s):** Research to help address Stakeholder Advisory Committee / SCCSC / USGS scientific priorities; SCCSC plans to use the Gulf Coastal Prairie and Great Plains science priorities, and NCCWSC planning goals during the FY12 funding cycle. Future years will include the Gulf Coastal Prairie, Great Plains, Gulf Coastal Plains and Ozarks, Desert, and Southern Rockies LCC science

priorities. Responses will be expected to help address the following:

- Forecast fish and wildlife population and habitat changes in response to climate and other global changes
- Assess the vulnerability and risk of species and habitats to climate and other global changes
- Assess landuse change impacts and impact to human populations from climate and other global changes
- Link models of physical climate change (such as temperature and precipitation) with models that predict ecological habitat, and population responses
- Work with existing regional downscaled models of future climate change in the South Central Area.
- Coordinate with adjacent CSCs on topics that cross common areas to facilitate seamless science outcomes.
- Develop standardized approaches to monitoring and help link existing monitoring efforts to climate, other global change, and ecological or biological response models
- Develop data management policies and practices to ensure that data generated at NCCWSC and the DOI CSCs are shared and interoperable with other datasets

These goals should be interpreted broadly to include natural resources and cultural resources as part of climate-ecosystem interaction research. In the absence of a standing Stakeholder Advisory Committee (SAC) the Center Director will work with the LCC Coordinators to identify short term science needs. A SAC workshop will be planned to develop a set of more specific research themes and information needs after the establishment of the permanent SAC. A limited and targeted Request for Proposals will be published on March 15. Pre-proposals will be accepted from Consortium members and USGS. Joint proposals are encouraged but not required.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages, due March 30	April 15	April 30	June 15	Up to \$1.2 M	5 to 7	1 to 3 years

**Northeast Climate Science Center** – Rachel Muir, Interim Director, 703-648-5114, [rmuir@usgs.gov](mailto:rmuir@usgs.gov)

**Proposal Topic(s):**

The Northeast Center initiated work beginning December 16 and therefore project priorities are still under development and at this juncture we are depending largely on the science priorities identified by our LCC partners, including the North Atlantic LCC, Appalachian Mountain LCC, Tall Grass Prairies and Big River LCC, Great Lakes LCC, Prairie Potholes LCC, and to a lesser degree, the South Atlantic LCC and the Gulf Coast and Ozarks LCC with whom we share limited geographic overlap but significant thematic interests. Not all these LCCs have finalized science needs; also science needs for Joint Ventures, Fish Habitat Partnerships, regional Association of Fish and Wildlife

Agencies priorities and other “partnerships of partnerships” addressing natural resource management can serve as a guide at this early stage. Within fiscal constraints we will attempt to address research in six sectors or eco-regions; coastal and marine ecosystems, (including Great Lakes); Forested and Forested Montane Ecosystems; Freshwater Ecosystems; Urban Ecosystems; Argo-Ecosystems; Grassland and Prairie Ecosystems. Collaborative projects involving consortium members AND federal research agencies will be given preference as will projects already having elements in place because of tight timelines. Priorities and a draft science plan are in rapid development – please contact the Interim Director Rachel Muir for updates, information to contact partners to identify science needs and other assistance.

Preproposals	Selection for Full Proposals	Final Proposals	Funding Decisions	Total Funding Available	Anticipated Number of Awards	Duration of Funding
2 pages	April 15	May 1	May 15	\$500K potentially to \$600K	6-8	1-3 years

## **END NOTES:**

**Alaska CSC Science Priorities:** The Alaska Climate Change Executive Roundtable (ACCER) and its Climate Change Coordinating Committee (C3) have identified the following priorities for AK-CSC activities during FY12: 1) Foundational work to facilitate the development and application of advanced downscaling products for the Alaska region; 2) Research linking changes in Alaska's glaciers to hydrologic variability and water quality; 3) Coastal and coastal wetland processes; 4) Efforts to address critical climate-data gaps; and 4) Efforts to link ongoing AK-CSC activities to community sustainability, subsistence, energy production and infrastructure.

The majority of funding for this year (approximately 65%) will be used to support ongoing projects that address these priorities. Remaining funds will be disbursed via targeted RFPs where potential participants will be identified with assistance from our agency and LCC partners.